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in *Carcharias* and full in *Carcharodon*, though a careful comparison will reduce the number of established species of fossil Carcharodons. He had also discovered new genera of *Scates*. Of the three fossil genera, *Myliobates*, *Zygobates*, and *Aëtobates*, the first is found living in the Old World, while the second and third are unknown there, except as fossils; all these genera have been found living in North and South America. Of the genus *Raia*, of which there are vast numbers in Europe, the number is diminished in America by at least one third.

Professor Peirce made a communication on a new view of the fundamental principles of Analytic Mechanics.

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**Three hundred and eighty-eighth meeting.**

November 17, 1853. — ADJOURNED QUARTERLY MEETING.

The PRESIDENT in the chair.

The time of this meeting was occupied in the transaction of business.

A communication was received from Mr. C. O'Brian, requesting permission to publish in a scientific periodical, about to be established in Cambridge, the proceedings of the Academy. The communication was referred to the Committee of Publication.

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**Three hundred and eighty-ninth meeting.**

November 29, 1853. — SECOND NOVEMBER MEETING.

DR. CHARLES BECK in the chair.

Dr. Burnett made a communication on the development of organs, especially of those of glandular structure; in which he traced the progress from a mass of cells, arranging themselves in linear series, through the various stages of lateral saccations or diverticula, and the dichotomous ramifications dividing and subdividing to form the intricate structure of the organs. For instance, the ureter, first formed, undergoes this multiplied ramification till it forms the glandular structure of